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CLAIMS

1. A battery terminal configured to be secured to a battery case

comprising:

a terminal assembly extending along a main axis and including an insert having a threaded bore and an outer metal portion having a base with an annular flange configured to engage an inner surface of the case;

a ring configured to be disposed over said terminal assembly; and an anti-rotation system including a first set of angularly-spaced bosses with intervening slots formed on an outer surface of the case, a second set of angularly-spaced bosses with intervening slots on a first side of said ring facing said case and which are complementary with said first set of bosses and slots, and a set of recesses on a second side of said ring opposite said first side configured to receive portions of said terminal assembly.

- 2. The battery terminal of claim 1 wherein said portions of said terminal assembly to be received into said set of recesses comprise end portions of an annular wall of said terminal assembly.
- 3. The battery terminal of claim 2 wherein said annular wall is at least in part deformed into said set of recesses.
- 4. The battery terminal of claim 3 wherein said annular wall is orbitally spin riveted.
- 5. The battery terminal of claim 1 wherein said outer metal portion of said terminal assembly comprises lead.

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6. The battery\terminal of claim 1 further including a sealing system, said sealing system comprising:

an annular groove circumferentially-extending in said flange on a side configured to engage said inner surface of said case;

an elastomeric seal configured to be disposed in said groove to form a seal between said inner surface of said case and said terminal assembly; and

a sealant material disposed between said first side of said ring and said case.

7. The battery terminal of claim 6 wherein said sealant material comprises a hot melt material.

- 8. The battery terminal of claim 1 further including communication means for allowing a fluid to communicate between an interior of said case and said groove.
- 9. The battery terminal of claim 8 wherein said communication means comprises a plurality of radially oriented bores extending from a radially outer surface of said base of said terminal assembly to said groove.
- 10. The battery terminal of claim 1 wherein said ring and terminal assembly are welded together.

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11. A battery terminal configured to be secured to a battery case comprising:

a terminal assembly extending along a main axis and including an insert having a threaded bore and an outer metal portion having a base with an annular flange configured to engage an inner surface of the case;

a ring configured to be disposed over said terminal assembly; an anti-rotation system including a first set of angularly-spaced bosses with intervening slots formed on an outer surface of the case, a second set of angularly-spaced bosses with intervening slots on a first side of said ring facing said case and which are complementary with said first set of bosses and slots, and a set of recesses on a second side of said ring opposite said first side configured to receive portions of said terminal assembly;

a sealing system, including,

an annular groove circumferentially extending in said flange on a side configured to engage said inner surface of said case,

an elastomeric seal configured to be disposed in said groove to form a seal between said inner surface of said case and said terminal assembly,

a sealant material disposed between said first side of said ring and said outer surface of said case; and

communication means for allowing a fluid to communicate between an interior of said case and said groove.

12. A battery terminal configured to be secured to a battery case comprising:

a terminal assembly extending along a main axis and including (i) an insert having a threaded bore and (ii) an outer metal portion having a base with an annular flange configured to engage an inner surface of the case; and

a ring configured to be disposed over said terminal assembly against an outer surface of the case;

wherein said terminal assembly and said ring are welded.